veral Flies, I thought fit to tranſcribe what Dr. *Hook* ſays concerning the ſame in his *Micrographia*, and to give the Figure thereof, as it is by him deſcribed. See *Lit. Q.* in regard the Book is very ſcarce, *Micrographia, Obſerv.* 38. *pag.* 173. 'Whilſt I was examining and conſidering the 'curious Mechaniſm of the Wings, I obſerved that un- 'der the Wings of moſt kinds of Flies, Bees, &c. there 'were placed certain Pendulums, or extended drops (as 'I may call them from their reſembling Motion and Fi- 'gure) for they much reſembled a long hanging drop of 'ſome tranſparent viſcous Liquor; and I obſerved them 'conſtantly to move juſt before the Wings of the Fly be- 'gan to move; ſo that at the firſt ſight I could not but 'gueſs, that there was ſome excellent uſe as to the Re- 'gulation of the Motion of the Wings, and did fancy that 'it might be ſomething like the Handle of a Cock, which 'by vibrating to and fro, might as 'twere open and ſhut 'the Cock, and thereby give a paſſage to the determinate 'Influences into the Muſcles: Afterwards, upon ſome o- 'ther Trials, I ſuppoſed that they might be for ſome uſe 'in Reſpiration, which for many Reaſons I ſuppoſe thoſe 'Animals to uſe; and methought it was not very impro- 'bable, but that they might have convenient paſſages un- 'der the Wings for the emitting (at leaſt) of the Air, if not 'admitting, as in the Gills of Fiſhes is moſt evident. Or per- 'haps this Pendulum might be ſomewhat like the Staff to 'a Pump, whereby theſe Creatures might exerciſe their 'Analogous Lungs, and not only draw in, but force out the 'Air they live by: But theſe were but Coujectures, and 'upon further examination ſeem'd leſs probable.

An ADVERTISEMENT.

THE Ingenious are deſired, That if they have any looſe Papers relating to the ſame Deſign with thoſe of Sir *William Petty*'s, Printed in this Tranſaction, they will pleaſe to communicate them, which Favour ſhall be acknowledged by the like Communications by the Publiſher.

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